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PTO/SB/08A (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Third Supplemental
(use as many sheets as necessary)

Complete if Known

Application Number	10/343,245-029329
Filing Date	December 6, 2002
First Named Inventor	Jonathan N. Howarth
Art Unit	—
Examiner Name	—
Attorney Docket Number	SU-7222-C

Sheet 1 of 6

U.S. PATENT DOCUMENTS

Examine r Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
CP	US-130	US-2130805	09-20-1938	Levine	
	US-131	US-2392505	01-08-1946	Rogers	
	US-132	US-2398598	04-16-1946	Rogers	
	US-133	US-2779764	01-29-1956	Paterson	
	US-134	US-2795556	06-11-1957	Quinn	
	US-135	US-2868787	01-13-1959	Paterson	
	US-136	US-2920997	01-12-1960	Wolf et al.	
	US-137	US-2971959	02-14-1961	Waugh et al.	
	US-138	US-2971960	02-14-1961	Waugh et al.	
	US-139	US-3121715	02-18-1964	Waugh et al.	
	US-140	US-3147219	09-01-1964	Paterson	
	US-141	US-3147259	09-01-1964	Paterson	
	US-142	US-3345371	10-03-1967	Paterson	
	US-143	US-3412021	11-19-1968	Paterson	
	US-144	US-3628972	12-14-1971	Lorenzen	
	US-145	US-4078099	03-07-1978	Mazzola	
	US-146	US-4119535	10-10-1978	White et al.	
	US-147	US-4126717	11-21-1978	Mazzola	
	US-148	US-4136052	01-23-1979	Mazzola	
	US-149	US-4199001	04-22-1980	Kratz	
	US-150	US-4242216	12-30-1980	Daugherty et al.	
	US-151	US-4270565	06-02-1981	King, Sr.	

Class
Sub Class

FOREIGN PATENT DOCUMENTS

Examine r Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	r ³
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
CP	FP-21	CA - 1230825	12-29-1987	Bristol-Myers Co.		
	FP-22	CA - 2042430	11-08-1991	Elitech Systems Corp.		
	FP-23	CA - 2103690	09-04-1996	S.C. Johnson & Son, Inc.		
	FP-24	EP - 0106563	04-25-1984	Rohm and Haas		
	FP-25	EP - 0206725	12-30-1986	Jeyes Group Limited		
	FP-26	EP - 0228593	07-15-1987	Chesebrough-Pond's Inc.		
	FP-27	EP - 0581826	02-09-1994	Jeyes Limited		
	FP-28	EP - 0827695 A2	03-11-1998	The Boc Group, Inc.		
	FP-29	GB - 1054243	01-04-1967	Wallace Cameron & Co.		
	FP-30	GB - 2273108	06-08-1994	Jeyes Group PLC		
	FP-31	JP - 56158333	12-07-1981	Teijin Ltd.		X
	FP-32	JP - 7299468	11-14-1995	Hakuto Co., Ltd.		X

Class
Sub Class

Examiner Signature	Carolyn Rader	Date Considered	12-1-04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Third Supplemental (use as many sheets as necessary)		Complete if Known	
		Application Number	10/019245-029329
Sheet 2 of 6		Filing Date	December 6, 2002
		First Named Inventor	Jonathan N. Howarth
		Art Unit	---
		Examiner Name	---
		Attorney Docket Number	SU-7222-C

U.S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
CP	US-152	US-4293425	10-06-1981	Price	
	US-153	US-4327151	04-27-1982	Mazzola	
	US-154	US-4331174	05-25-1982	King, Sr.	
	US-155	US-4382799	05-10-1983	Davis et al.	
	US-158	US-4388811	06-21-1983	Zebarth	
	US-157	US-4427692	01-24-1984	Girard	
	US-158	US-4465839	08-14-1984	Schulte et al.	
	US-159	US-4532330	07-30-1985	Cole	
	US-160	US-4534963	08-13-1985	Gordon	
	US-161	US-4537697	08-27-1985	Girard	
	US-162	US-4560766	12-24-1985	Girard et al.	
	US-163	US-4571333	02-18-1986	Hsiao et al.	
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	US-165	US-4621096	11-04-1986	Cole	
	US-166	US-4654424	03-31-1987	Girard et al.	
	US-167	US-4662387	05-05-1987	King, Sr.	
	US-168	US-4677130	06-30-1987	Puzig	
	US-169	US-4692335	09-08-1987	Iwanski	
	US-170	US-4698165	10-06-1987	Theyson	
CP	US-171	US-4713079	12-15-1987	Chun et al.	
	US-172	US-4728453	03-01-1988	Choy	
	US-173	US-4745189	05-17-1988	Lee et al.	
	US-174	US-4780197	10-25-1988	Schuman	
	US-175	US-4803079	02-07-1989	Hsiao et al.	
	US-176	US-4860554	08-29-1989	Innes et al.	
	US-177	US-4867895	09-19-1989	Choy	
	US-178	US-4919841	04-24-1990	Kamel et al.	
	US-179	US-4925886	05-15-1990	Smith	

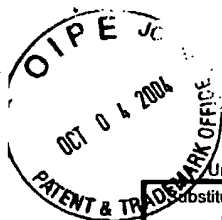
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CP	FP-33	WO 8802987.	05-05-1988	Great Lakes Chemical Corp.	
	FP-34	WO 9630491 -	10-03-1996	Jeyes Group PLC	
	FP-35	WO 9715652 -	05-01-1997	The Clorox Co.	
	FP-36	WO 9743264 -	11-20-1997	Great Lakes Chemical Corp.	
	FP-37	WO 0153209 A2	07-26-2001	Albemarle Corporation	

Examiner Signature	<i>Carolyn Pado</i>	Date Considered	11-1-04
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				Application Number	10/343,245-029,329	
Sheet		3	of	6	Filing Date	December 6, 2002
					First Named Inventor	Jonathan N. Howarth
					Art Unit	--
					Examiner Name	--
					Attorney Docket Number	SU-7222-C

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		Number-Kind Code ² (if known)				
SS	US-180	US-4964892	10-23-1990	Hsu		
SS	US-181	US-5076315	12-31-1991	King		
SS	US-182	US-5137563	08-11-1992	Valkanas		
SS	US-183	US-5173190	12-22-1992	Picek		
SS	US-184	US-5218983	06-15-1993	King		
SS	US-185	US-5284229	11-23-1993	Mannig et al.		
SS	US-186	US-5338461	08-16-1994	Jones		
SS	US-187	US-5339889	08-23-1994	Bigham		
SS	US-188	US-5384102	01-24-1995	Ferguson et al.		
SS	US-189	US-5389390	02-14-1995	Kross		
SS	US-190	US-5403813	04-04-1995	Lichti et al.		
SS	US-191	US-5409711	04-25-1995	Mapelli et al.		
SS	US-192	US-5422126	08-06-1995	Howarth et al.		
SS	US-193	US-5460833	10-24-1995	Andrews et al.		
SS	US-194	US-5476116	12-19-1995	Price et al.		
SS	US-195	US-5484615	01-16-1996	Kounev		
SS	US-196	US-5480992	02-13-1996	Andrews et al.		
SS	US-197	US-5565576	10-15-1996	Hall et al.		
SS	US-198	US-5578559	11-26-1996	Dolan et al.		
SS	US-199	US-5591692	01-07-1997	Jones et al.		
SS	US-200	US-5610126	03-11-1997	Barford et al.		
SS	US-201	US-5614528	03-25-1997	Jones et al.		
SS	US-202	US-5641530	06-24-1997	Chen		
SS	US-203	US-5670451	09-23-1997	Jones et al.		
SS	US-204	US-5750061	05-12-1998	Farina et al.		
SS	US-205	US-5753802	05-19-1998	Hung et al.		
SS	US-206	US-5756440	05-26-1998	Watanabe et al.		
SS	US-207	US-5763376	06-09-1998	Ward et al.		
SS	US-208	US-5780641	07-14-1998	Yerushalmi et al.		
SS	US-209	US-5821546	10-13-1998	Xiao et al.		

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
	FP-97	WO 97/03002	07-20-2001	Aldemarle Corporation	

Examiner Signature	Carolyn Pade	Date Considered	11-1-04
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**Third Supplemental
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Application Number	10/243,245 029329
Filing Date	December 6, 2002
First Named Inventor	Jonathan N. Howarth
Art Unit	---
Examiner Name	---
Attorney Docket Number	SU-7222-C

Sheet 4 of 6

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		Number-Kind Code ² (if known)			
[Handwritten marks]	US-210	US-5858060	01-12-1999	Platt	
	US-211	US-5891499	04-06-1999	Balsano	
	US-212	US-5911870	06-15-1999	Hough	
	US-213	US-5932265	08-03-1999	Morgan	
	US-214	US-5942153	08-24-1999	Heydel	
	US-215	US-5958853	09-28-1999	Watanabe	
	US-216	US-5981461	11-09-1999	Counts et al.	
	US-217	US-5984994	11-16-1999	Hudson	
	US-218	US-6039992	03-21-2000	Compadre et al.	
	US-219	US-6110353	08-29-2000	Hough	
	US-220	US-6284144	09-04-2001	Itzhak	
	US-221	US-6348227	02-19-2002	Caracciolo, Jr.	
	US-222	US-6397622 B1	06-04-2002	Miller et al.	
	US-223	US-6448410 B1	09-10-2002	Howarth et al.	
	US-224	US-6495698 B1	12-17-2002	Howarth	
	US-225	US-6508954 B1	01-21-2003	Elnagar et al.	
	US-226	US-6565868 B1	05-20-2003	Howarth et al.	
	US-227	US-6605308 B1	08-12-2003	Shane et al.	
	US-228	US-6638959 B2	10-28-2003	Howarth et al.	
	US-229	US-6680070 B1	01-20-2004	Howarth et al.	

Sub
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Class**FOREIGN PATENT DOCUMENTS**

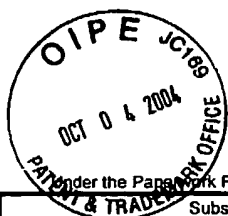
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		First Named Inventor	Jonathan N. Howarth
		Group Art Unit	---
		Examiner Name	---
		Attorney Docket Number	SU-7222-C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CP	L-38	Corral et al., "Substitution in the Hydantoin Ring. III. Halogenation", J. Org. Chem., 1963, Vol. 28, ppg. 1100-1104.	
CP	L-39	Jolles, "General Methods of Bromination", Bromine and its Compounds, 1966, Ernest Benn, London, ppg. 365.	
CP	L-40	Markish et al., "New Aspects on the Preparation of 1,3-Dibromo-5,5-Dimethylhydantoin", Ind. Eng. Chem. Res. 1995, Vol. 34, ppg. 2125-2127.	
CP	L-41	Orazi et al., "Halogenacion con 3-Bromo-5,5-Dimetil-Hidantoina", Anales Assoc. Quim. Argentina, 1949, Vol. 37, ppg. 192-196. (Not translated)	
CP	L-42	Orazi et al., "Halogenacion Con 1-3-Dibromo-5,5-Dimetil-Hidantoina", Anales Assoc. Quim. Argentina, 1950, Vol. 38, ppg. 5-11. (Not translated)	
CP	L-43	Gottardi: Reaction of Cl Br - In Aqueous solution (76 Zeutralks. Bakteriell., Parasiteukd.,) In Fektionskr. Hyg., Abt. I; Orig., Geihe B 162 (3-4), ppg 384-388.	
	L-44	March, "Advanced Organic Chem.", 1992, 4th Edition, ppg. 639-640.	
CP	L-45	HCAPLUS Abstract of JP 07171576 A2 issued 1995.	
CP	L-46	HCAPLUS Abstract of JP 07277912 A2 issued 1995.	
CP	L-47	HCAPLUS Abstract of JP 08027119 A2 issued 1996.	
CP	L-48	Chowhan et al., "Hardness Increase Induced by Partial Moisture Loss in Compressed Tablets and Its Effect on In Vitro Dissolution", J. Pharm. Sciences, October 1978, Vol. 67, No. 10, ppg. 1385-1389.	
CP	L-49	Krycer et al., "An Evaluation of Tablet Binding Agents Part II. Pressure Binders", Powder Technology, 1983, Vol. 34, ppg. 53-	
CP	L-50	Petterson, "N-Halogen Compounds. I. Decomposition of 1,3-Dichloro-5,5-dimethylhydantoin in Water at pH 9", J. Org. Chem., 1959, Vol. 24, ppg. 1414-1419.	
CP	L-51	HCAPLUS Abstract of JP 08239699 A2 issued 1996.	
CP	L-52	HCAPLUS Abstract of JP 09087684 A2 issued 1997.	
CP	L-53	HCAPLUS Abstract of JP 09227317 A2 issued 1997.	
CP	L-54	Hayward America's #1 Pool Water Systems Product Catalog, "Automatic Chemical Feeders" "Chlorinators (Slow Dissolve Tri-Chlor Only) and Brominators, Hayward Pool Products Inc. Website, < http://www.haywardnet.com/products/catalog/displayProdInfo.cfm?itemID=61 > , 2 pages.	
CP	L-55	Author unknown, "Big Brother Brominator - Brominators", Bulky Systems Website, < http://www.bulkysystemsinc.com/brominator.html > (Visited August 10, 2001). 1 page.	

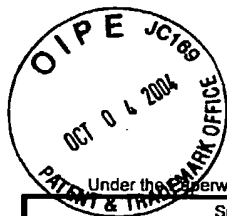
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Third Supplemental (use as many sheets as necessary)		Complete if Known	
		Application Number	10/349,245- 029329
		Filing Date	December 6, 2002
		First Named Inventor	Jonathan N. Howarth
		Group Art Unit	---
		Examiner Name	---
		Attorney Docket	SU-7222-C

Sheet	6	of	6
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CP	L-56	Hayward Pool Products Owner's Guide, Installation and Operating Instructions, "Hayward Chemical Feeder", Models C250CF, C500CF, C1100CF, C1800CF, C2400CF, - 1998 - 4 pages	
CP	L-57	Hayward America's #1 Pool Water Systems Product Catalog, "Automatic Chemical Feeders" "Chlorinators (Slow Dissolve Tri-Chlor Only) and Brominators, Buyers Guide, Hayward Pool Products Inc., Website, < http://www.haywardnet.com/products/catalog/displayProdInfo.cfm?itemID=60 >, 2 pg	
CP	L-58	Pentair Pool Products Brochure, "Rainbow High Capacity Chlorine/Bromine Feeders", "Unsurpassed Performance From The Industry's Leader in Automatic Sanitizing of Large Residential and Commercial Pools", date unknown, 1 page.	
CP	L-59	Pentair Pool Products Brochure, "Rainbow Model 300 Automatic Chlorine/Bromine Off-line Feeders", "The Efficient, Easy Way to Sanitize Your Pool or Spa", date unknown, 1 page.	
CP	L-60	Pentair Pool Products Brochure, "Rainbow Model 320 Automatic Chlorine/Bromine In-line Feeder", "Saves Time, Reduces Manual Handling of Chemicals", date unknown, 7 pages.	
CP	L-61	Sani-King Perform-Max Pool Sanitizer Instruction Guide, Models 910, 940, & 980 (Inline) and Models 930 & 960 (Off-line), date unknown, 16 pages.	
CP	L-62	Sani-King Spa Feeder Product Brochure Model 740 from King Technology Website, < http://www.kingtechnology.com/spafeeder.htm > Visited (August 10, 2001), 2000, 4 pages.	
CP	L-63	Sani-King Adjust-A-Flo Product Brochure from King Technology Website < http://www.kingtechnology.com/spafeeder.htm > (Visited August 10, 2001), 2000, 1 page.	
CP	L-64	Sani-King Perform-Max Sanitizers for Inground Pools Product Brochure for Model 940 & 960 from King Technology Website, < http://www.kingtechnology.com/perfermaxIG.htm > , visited August 10, 2001, 2000, 1 page	
CP	L-65	Sani-King Perform-Max Sanitizers for Above Ground Pools Product Brochure Model 910 & 930 from King Technology Website,	
CP	L-66	Discount Pool & Spa Supplies, Automatic Chlorinators and Chemical Feeders Website, < http://www.discountpoolsupplies.com/Chemfeeders/ > Visited August 10, 2001, 3 pages.	
CP	L-67	Sorum -- Fundamentals of General Chemistry, p. 315, 1955.	
CP	L-68	Al Zahrani, S.M., "Utilization of Polyethylene and Paraffin Waxes as Controlled Delivery Systems for Different Fertilizers", Ind. Eng. Chem. Res., 2000, vol 39, pp 369-371.	

Examiner Signature	<i>Carolyn Paden</i>	Date Considered	10-1-04
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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